(12) **United States Patent**
Wojahn

(10) **Patent No.: US 9,274,895 B1**
(45) **Date of Patent: Mar. 1, 2016**

(54) **PROCESSING DEVICE WITH SELF-SCRUBBING LOGIC**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 348 days.

(21) Appl. No.: **13/941,190**

(22) Filed: **Jul. 12, 2013**

Related U.S. Application Data

(60) Provisional application No. 61/768,110, filed on Feb. 22, 2013.

(51) **Int. Cl.**
G06F 11/07	(2006.01)
G06F 11/14	(2006.01)
G06F 11/10	(2006.01)

(52) **U.S. Cl.**
CPC *G06F 11/1446* (2013.01); *G06F 11/106* (2013.01)

(58) **Field of Classification Search**
CPC .. G06F 11/073; G06F 11/0793; G06F 11/106
USPC 714/6.1, 6.11
See application file for complete search history.

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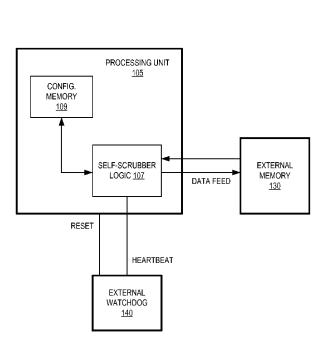|				
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(57) **ABSTRACT**

An apparatus includes a processing unit including a configuration memory and self-scrubber logic coupled to read the configuration memory to detect compromised data stored in the configuration memory. The apparatus also includes a watchdog unit external to the processing unit and coupled to the self-scrubber logic to detect a failure in the self-scrubber logic. The watchdog unit is coupled to the processing unit to selectively reset the processing unit in response to detecting the failure in the self-scrubber logic. The apparatus also includes an external memory external to the processing unit and coupled to send configuration data to the configuration memory in response to a data feed signal outputted by the self-scrubber logic.

13 Claims, 4 Drawing Sheets